

uFR Online pins and connectors description Version 1.0

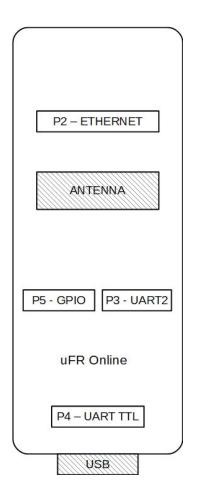


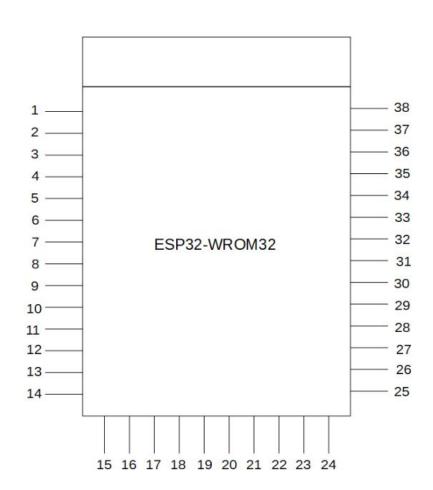
Table of contents

onnectors location and ESP32 pinout	
Available pins	L
User programmable pins	5
Non-programmable pins	6
Revision history	7



Connectors location and ESP32 pinout







Available pins

In table below is shown list of available pins on uFR Online.

User available uFR Online pins			
ESP32 Pin number	GPIO	Description	
4	GPIO36	External input pin 1	
5	GPIO39	External input pin 2	
6	GPIO34	Connected to uFR reader TX	
7	GPIO35	Connected to external UART TX	
8	GPIO32	Connected to uFR reader reset	
9	GPIO33	External input/output pin 3	
13	GPIO13	Connected to internal RGB LED	
24	GPIO2	External output pin 6	
27	GPIO16	Connected to uFR reader RX	
29	GPIO5	External input/output pin 4	
30	GPIO18	External input/output pin 5	
34	GPIO3	Connected to Serial to USB FTDI RX	
35	GPIO1	Connected to Serial to USB FTDI TX	
37	GPIO23	Connected to external UART RX	



User programmable pins

In table below is shown list of user programmable pins on OEM unlocked uFR Online.

UART 1 - Internally connected to uFR Reader		
ESP32 Pin number	GPIO	Description
6	GPIO34	Connected to uFR Reader TX
8	GPIO32	Connected to uFR Reader reset
27	GPIO16	Connected to uFR reader RX

UART 2 - connected external P3 connector			
P3 Pin number	ESP32 Pin number	GPIO	Description
1	Х	Х	Connected to 3.3V power supply
2	7	GPIO35	Connected to external UART TX
3	37	GPIO23	Connected to external UART RX
4	8	GPIO32	Connected to uFR Reader reset
5	Х	Х	Connected to GND

Input/Output pins - connected external P5 connector			
P5 Pin number	ESP32 Pin number	GPIO	Description
1	4	GPIO36	External input pin 1
2	5	GPIO39	External input pin 2
3	9	GPIO33	External input/output pin 3
4	29	GPIO5	External input/output pin 4
5	30	GPIO18	External input/output pin 5
6	24	GPIO2	External output pin 6



Non-programmable pins

In table below is shown list of pins that are internally conencted and not user programmable pins on OEM unlocked uFR Online.

External P4 connector. Only available on UART TTL version without USB connector		
P4 Pin number	Description	
1	External 5V power supply	
2	UART TX Pin	
3	UART RX Pin	
4	UART RTS Pin	
5	GND	
6	UART DTR Pin	

External P2 connector. Only available on Ethernet version with dedicated LAN adapter.



Revision history

Date	Version	Comment
2019-07-15	1.0	Base document